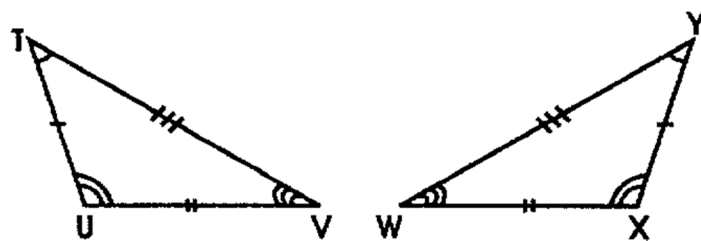


Unit 4 Worksheet 4 Congruent Triangles

For #1 – 3, use the picture at the right.



1) Name the angles that are congruent:
 $\angle U \cong$ _____ $\angle T \cong$ _____ $\angle V \cong$ _____

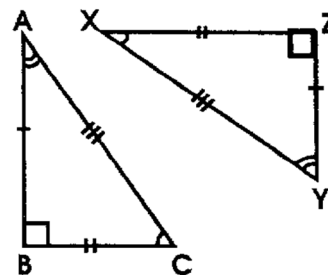
2) Name the sides that are congruent:
 $\overline{TU} \cong$ _____ $\overline{TV} \cong$ _____ $\overline{UV} \cong$ _____

3) Complete the following congruence statement: $\triangle TUV \cong$ _____

For #4 – 6, use the picture at the right.

4) Name the angles that are congruent:
 $\angle A \cong$ _____ $\angle B \cong$ _____ $\angle C \cong$ _____

5) Name the sides that are congruent:
 $\overline{AB} \cong$ _____ $\overline{BC} \cong$ _____ $\overline{CA} \cong$ _____



6) Complete the following congruence statement: $\triangle CBA \cong$ _____

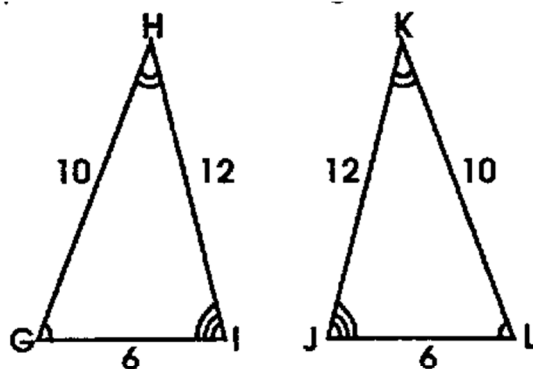
For #7 – 14, complete each congruence statement using the pictures at the right.

7) $\triangle HGI \cong$ _____

8) $\triangle JKL \cong$ _____

9) $\triangle IGH \cong$ _____

10) $\triangle LJK \cong$ _____

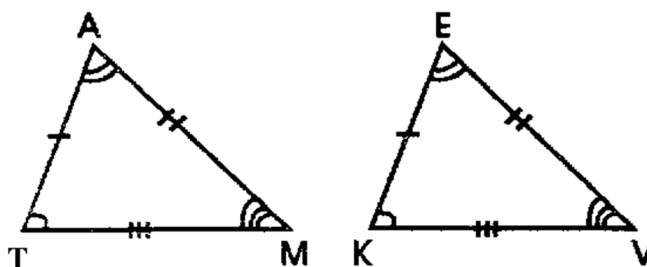


11) $\triangle ATM \cong$ _____

12) $\triangle TMA \cong$ _____

13) $\triangle MAT \cong$ _____

14) $\triangle TAM \cong$ _____



For #15-20, use the picture at the right to determine if the congruency statement is TRUE or FALSE.

15) $\triangle ABC \cong \triangle XYZ$

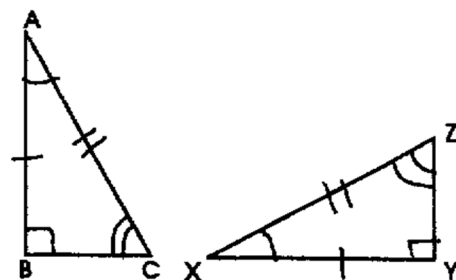
16) $\triangle ABC \cong \triangle ZYX$

17) $\triangle ACB \cong \triangle YXZ$

18) $\triangle BCA \cong \triangle YXZ$

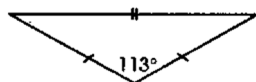
19) $\triangle CAB \cong \triangle ZXY$

20) $\triangle BAC \cong \triangle YXZ$



For #21-24, classify the triangles by their sides and angles.

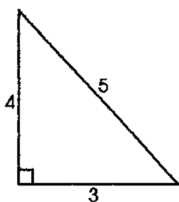
21)



side _____

angle _____

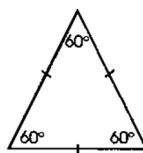
22)



side _____

angle _____

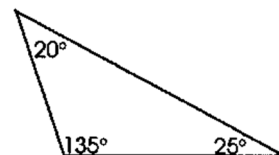
23)



side _____

angle _____

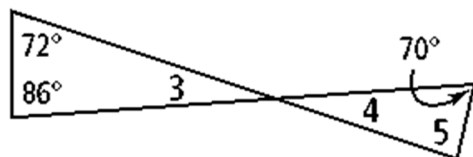
24)



side _____

angle _____

25) Find the measure of the missing angles

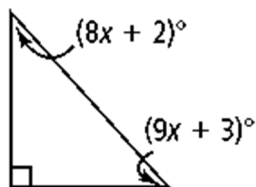


$m\angle 3 =$ _____ $m\angle 4 =$ _____

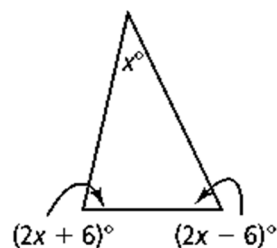
$m\angle 5 =$ _____

For #26 & 27, solve for x. Then find the measures of the missing angles.

26)



27)



28) Solve for the values of x and y

